ABSTRACT

An accelerator composition for use with sprayed cementitious compositions, which is an aqueous solution or dispersion of a blend of the essential Components 1-3

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- Component 1 aluminium sulphate
- Component 2 at least one of an alkanolamine and an alkylene diamine or triamine
- Component 3 hydrofluoric acid
- optionally with at least one of Components 4-7, with the proviso that at least one of Component 4 or Component 5 be present:
 - Component 4 at least one of sodium hydroxide, potassium hydroxide, lithium hydroxide, magnesium hydroxide, lithium carbonate, sodium carbonate, potassium carbonate,
- 15 magnesium carbonate, sodium sulphate, potassium sulphate, magnesium sulphate and lithium sulphate;
 - Component 5 C_1 C_{10} aliphatic mono- and dicarboxylic acids and their metal salts;
 - Component 6 aluminium hydroxide;
 - Component 7 at least one of phosphoric acid and phosphorous acid.

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The accelerators have excellent long-term stability and work well with "difficult" cements, such as some Japanese OPCs.